

## PRPS2 Protein, Human (His)

Cat. No.:	HY-P77156
Synonyms:	Ribose-Phosphate Pyrophosphokinase 2; PPRibP; PRS-II; PRPS2
Species:	Human
Source:	E. coli
Accession:	P11908 (M1-L318)
Gene ID:	5634
Molecular Weight:	Approximately 36 kDa

### PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

#### Background

Phosphoribosylpyrophosphate Synthetase 2 (PRPS2) is an enzyme crucial for nucleotide biosynthesis as it catalyzes the synthesis of phosphoribosylpyrophosphate (PRPP). PRPP serves as a key precursor in the de novo biosynthesis of purine and pyrimidine nucleotides, essential for DNA and RNA synthesis. The enzymatic activity of PRPS2 involves the transfer of pyrophosphate from ATP to ribose 5-phosphate, forming PRPP. This reaction represents a critical step in the purine and pyrimidine salvage pathways, providing the necessary building blocks for cellular nucleotide pools. The role of PRPS2 in synthesizing PRPP underscores its significance in supporting fundamental cellular processes, including the maintenance of genetic material and cellular proliferation.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA